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3061

Office Memorandum • UNITED STATES GOVERNMENT

TO : Acting Chief, Engineering Branch

DATE: 11 October 1950

FROM : Acting Chief, Plant Engineering Section

25X1 SUBJECT: [redacted] Base Station Location

25 YEAR RE-REVIEW

25X1 1. This report covers the various investigations, evaluations, and recommendations made by the undersigned, together with [redacted] and [redacted] of Operations Branch, during the period of temporary duty (21 September to 5 October) in connection with the establishment of the [redacted] Class A Base Station.

25X1 2. The present communications facilities operated by the Agency at [redacted] are being taxed both by an ever-increasing traffic load and by space demands on the part [redacted]. These demands are presently forcing: a) a relocation of the [redacted] transmitters to an undesirable location [redacted] proper; b) a relocation of the [redacted] receivers to a questionable site on the edge of the [redacted] c) a displacement of [redacted] personnel to more crowded quarters. Neither the sites being vacated nor those to which the move is being made offer satisfactory electrical conditions for operations of the type being undertaken. In addition to a high man-made noise level and shielding from metal shops and [redacted] there is no room for the erection of high-gain aperiodic antennas, or for the expansion of facilities to handle new operational requirements that are now awaiting activation.

25X1 3. In connection with the search for a more favorable site, a detailed inspection was made of the radio station now used [redacted] This station is located [redacted] (separate receiving and transmitting installations) [redacted] and has been offered to the Agency by [redacted] Radio Officer, since [redacted] is moving its facilities to new sites [redacted] in order to install expanded antenna fields and additional transmitters. A description of the station is attached as Appendix A, including map, equipment lists, and photostats of antenna plans and building drawings. The high noise level at the receiver site, the susceptibility of the transmitter site to flooding, the general condition of all buildings, and the time involved [redacted] to complete its move all combine to necessitate a recommendation against acceptance of this station by the Agency.

25X1 4. As an alternate proposal, [redacted] suggested use of a site adjacent to the new [redacted] transmitter site [redacted] included in Appendix A). This would be acceptable but several days searching failed to uncover a suitable receiver site in the surrounding area. Because of the critical shortage of arable land [redacted] it is practically impossible to obtain the consent [redacted] to occupy land now devoted to agriculture. For this reason, [redacted] Engineers were approached to determine

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25X1 what land is at present held [redacted]
The real estate officers of the above organizations were cooperative but not
25X1 very helpful as their records were badly out-of-date. [redacted]
25X1 [redacted]

25X1 5. Time was not available to search the entire [redacted] area. Such a project, due to the terrain and lack of good roads, would require weeks of concentrated effort on the part of a qualified individual, preferably with a light plane at his disposal. It is doubtful whether even then suitable locations could be obtained without requisitioning land now under cultivation, a procedure which
25X1 might prove difficult in view of established [redacted] policies.

25X1 [redacted]

25X1 8. At present, [redacted] is overloaded with the job of supervising
25X1 [redacted] Communications activities. His Maintenance Chief, [redacted] is equally as busy with the current moves and equipment repairs. In addition to their own jobs, these two have also been operating circuits on Sunday to permit the regular operators to have some time off. Under such conditions, it is hardly reasonable to assume that they will have time to undertake the negotiations and construction supervision that a new base will require. For this reason, it is recommended that Engineering Branch furnish one engineer initially, and others (if available) when construction actually begins. This engineer should have the power to negotiate contracts with civilian contractors through the appropriate military offices and in
25X1 accordance with procedures currently prescribed for [redacted]
If priority is desired for establishment of the base, this engineer should be prepared to leave as soon as possible in order to get construction under way before winter. Transportation (automobile or station wagon) and a working fund should be provided.

9. A detailed report, dealing particularly with operational aspects of the base station, will be submitted to Chief, Communications Division by 25X1 [redacted] His report will also discuss [redacted] as possible station sites, and request that the [redacted] location be obtained in 25X1 preference to the [redacted] Station for use as the primary base [redacted]

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[redacted] TRANSMITTING STATION

Transmitters Installed

Type	Power	Number
RW 15	15 Kilowatts	3
BC 340	10 Kilowatts	1
BC 339	1 Kilowatt	18
Collins TDH	2.5 Kilowatts	1
93C	2.5 Kilowatts	4 R.F.
W.E. D-156000 (Single Sideband)	2.5 Kilowatts	3

STAT [redacted] TRANSMITTING STATION

Antennas

Type	Bearings	Number
STAT Class A Rhombic	[redacted]	1
Class A Rhombic		1
Class A Rhombic		2
Class A Rhombic		2
Class C Rhombic		1
Class C Rhombic		3
Class C Rhombic		1
Class E Rhombic		1
Class E Rhombic		1
V Antenna		1
V Antenna		1
V Antenna		2
V Antenna		2
V Antenna		2
V Antenna		2
V Antenna		2
V Antenna		2
3 Wire Folding Doublets	60- 360°	10

STAT [redacted] TRANSMITTING STATION

Emergency Power

Type Units	Power	Number
MURPHY DIESEL	100	3
PE 216	50	3

STAT Number keying lines [redacted] - 50

Number lines to receivers - 100

Distance to Receiving Station - 3 miles

Acreage - 100 (approximately)

STAT [redacted] RECEIVING STATION

Receivers Installed

Type	Number
AN/FR-3, AN/FGC-1	20
BC 779	5
WE D-99945 (Single sideband)	3
400l, Modified (Single sideband)	3
AN/FRR-12	1

Antennas

Type	Bearings	Number
Class A Rhombic	[redacted]	1
Class A Rhombic		3
Class A Rhombic		2
Class C Rhombic		2
Class C Rhombic		4
Class C Rhombic		2
Class C Rhombic		2
V Antenna		2
Double Doublets		3
3 Wire Folding Dipole	0°-360°	16

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STAT [redacted] RECEIVING STATION

Emergency Power

Type Units	Power	Number
PE 85	25	3

STAT Number line [redacted] - 150

Acreage - 90 (approximately)

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TRANSMITTER STATION - SMALL HOUSE ENCLOSES AUTOMATIC VOLTAGE REGULATOR. NOTE EXHAUST HEADER.

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8 3

8 3

STAT

VIEW TAKEN LOOKING TOWARD

NOTE FACTORY IN BACKGROUND. THREE-ELEMENT BEAM ANTENNAS ON CHIMNEY AND TOWER ARE USED WITH AN/TRC-1 BACKUP CIRCUITS. - TRANSMITTER.

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QUONSET "B.O.Q."! HUTS IN FAIR CONDITION BUT INTERIORS NEED RE-FINISHING. HIGH WATER HAS BEEN HARD ON WOODEN FLOORS! SANITARY FACILITIES ARE "BEHIND" QUONSETS. - TRANSMITTER

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TRANSMISSION LINE H-FRAME DETAILS. WHITE LAP-SIDED BUILDING IN BACKGROUND IS SMALL WARE-HOUSE. SMALL GREY BUILDING (SEEN THROUGH H-FRAME) IS PUMP HOUSE FOR COMPOUND. [redacted] ANTENNAS ARE IN DISTANT BACKGROUND. — TRANSMITTER

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MAIN BUILDING [redacted] RECEIVER STATION

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END VIEW OF RECEIVER BUILDING SHOWING BOILER HOUSE FOR HEATING SYSTEM.

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GENERATOR ROOM WING - RECEIVE STATION.
TANKS SHOWN, PLUS THOSE ON OTHER SIDE OF
BUILDING, HAVE CAPACITY OF ABOUT 6000 GALLONS

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LOOKING WEST FROM RECEIVER BUILDING. PLANTS IN BACKGROUND ARE RESUMING OPERATION AND NOISE LEVEL IS RISING. OPEN WIRE CONSTRUCTION IN FOREGROUND IS NO GREAT HELP IN NOISE REDUCTION EITHER.

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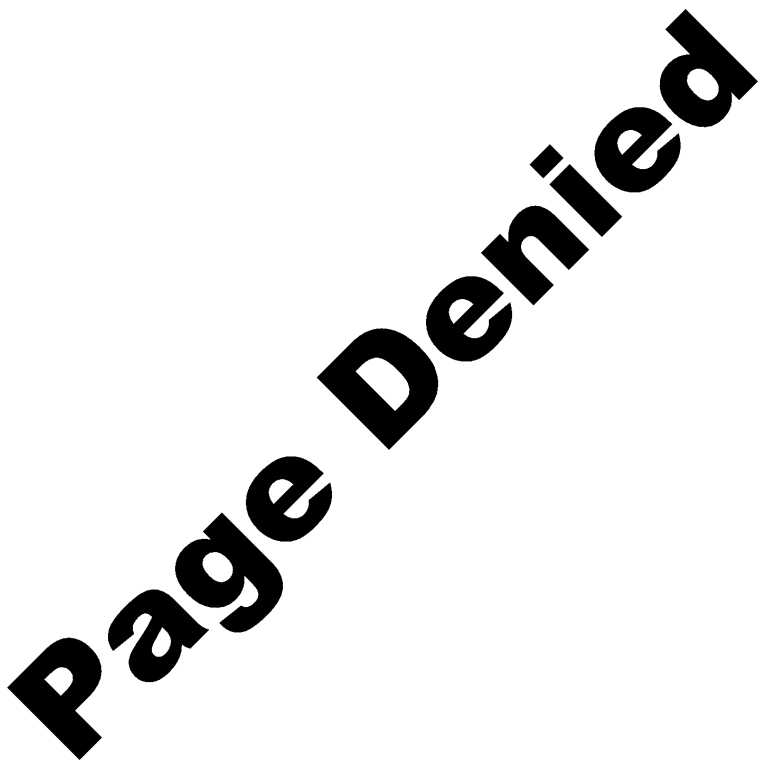
LOOKING SOUTH-WEST FROM RECEIVER BUILDING. FACTORY BUILDING IN BACKGROUND IS BEING REBUILT. MUCH WELDING (ELECTRIC) ADDS TO THE GENERAL NOISE



LOOKING SOUTH FROM RECEIVER BUILDING.

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LOOKING SOUTH-EAST FROM RECEIVER BUILDING. NOTE PROXIMITY OF [redacted] TO RHOMBICS.

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